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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,168	03/16/2006	Atsushi Tabuchi	CNP-US030140	3831
22919	7590	10/03/2008	EXAMINER	
GLOBAL IP COUNSELORS, LLP 1233 20TH STREET, NW, SUITE 700 WASHINGTON, DC 20036-2680				SHAH, TUSHAR S
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/595,168	TABUCHI, ATSUSHI	
	Examiner	Art Unit	
	TUSHAR S. SHAH	2184	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 24 June 2008.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-4 and 8-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) _____ is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 16 March 2006 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ . |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>8/20/2008</u> . | 6) <input type="checkbox"/> Other: _____ . |

DETAILED ACTION

This action is in response to the amendment filed on June 24th, 2008.

Status of Claims

Claims 1-4 and 8-10 are pending. Claims 1, 8 and 10 are in independent form.

Claims 1-4 have been amended, claims 5-7 have been canceled and claims 8-10 are new. Claims 1-4, 8 and 9 are rejected under US 103(a) and claim 10 is rejected under USC 102(e).

Response to Arguments

1. Applicant's arguments with respect to claims 1-4 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claim 10 is rejected under 35 U.S.C. 102(e) as being anticipated by Stallkamp US Patent No. 6,895,009 B1.

Referring to claim 10, Stallkamp discloses, a device for generating a cycle start packet (cycle masters periodically transmit a cycle start signal, column 3, lines 28-29) serving as a cycle master (either AV node 108 or 110 may serve as cycle master, Stallkamp column 3, lines 37-41) on an IEEE1394 and transmitting data to a node connected on the IEEE1394 bus in synchronism with the cycle start packet, comprising:

An external synchronizing signal receiver (SYNC 254, Stallkamp Fig. 2) for receiving a reference signal (the house reference signal is provided to each node by the bus 102, Stallkamp Figs 1 and 2); and

A synchronization adjustment unit for synchronizing the frequency of the cycle start packet output from the cycle master with the frequency of the reference signal (Synchronizer 254 synchronizes the operating frequencies of AV devices and enables data based in one time domain to be transmitted over an isochronous bus of a second time domain, Stallkamp column 5, lines 10-20).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1-4, 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stallkamp US Patent No. 6,895,009 B1 (hereinafter Stallkamp) in view of Domon US Publication No. 2003/0014679 A1.

Referring to claim 1, Stallkamp discloses, a data conversion system in which one of a plurality of nodes (Master 106 and A/V devices 108 and 110, Stallkamp Fig. 1) on an IEEE1394 bus (isochronous network 104 is IEEE 1394 compliant, Stallkamp, column 4, lines 56-60) serves as a cycle master (Master 106, Stallkamp Fig. 1), wherein a first node of the plurality of nodes comprises an external synchronizing signal receiver (SYNC 254, Stallkamp Fig. 2) for receiving an external reference signal (house reference signal 225, Stallkamp Fig. 2) provided on at least one of the first and second nodes (the house reference signal is provided to each node by the bus 102, Stallkamp Figs 1 and 2), and

a synchronization adjustment unit for synchronizing the frequency of the cycle start packet output from the cycle master with the frequency of the reference signal received by the external synchronizing signal receiver (Synchronizer 254 synchronizes the operating frequencies of AV devices and enables data based in one time domain to be transmitted over an isochronous bus of a second time domain, Stallkamp column 5, lines 10-20).

It is noted that Stallkamp does not appear to explicitly disclose, transmits data from one of the plurality of nodes to another node of the plurality of nodes in synchronism with a cycle start packet output from the cycle master.

The first node or a second node of the plurality of nodes comprises a data conversion unit for converting the data and outputting the converted data in synchronism with the reference signal.

However, Domon discloses, transmits data (Digital Video data is mapped into isochronous packets and received by a digital video player 220, Domon page 6, paragraph 0098 lines 3-8 and paragraph 009, lines 1-3) from one of the plurality of nodes to another node of the plurality of nodes in synchronism with a cycle start packet output from the cycle master (the cycle master outputs a cycle start packet to the other nodes in the network to synchronize them to the master, Domon page 1, paragraph 0017, lines 1-5), and converts the data in the other node (the digital video player 220 decodes a digital video signal of DV format received from the IEE1394 bus and outputs an analog video signal, Domon page 6, paragraph 0098, lines 6-8) of the plurality of nodes.

The first node or a second node of the plurality of nodes comprises a data conversion unit for converting the data and outputting the converted data (the digital video player 220 decodes the DV format data and outputs an analog video signal, Domon page 6, paragraph 0098, lines 6-8) in synchronism with the reference signal.

Stallkamp and Domon are analogous art because they are from the same field of endeavor, namely, they both synchronous video data transmitted over an IEEE 1394 bus.

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of Stallkamp and Domon before him or her, to enhance the communication and conversion methods of Domon with the synchronization with the house reference signal of Stallkamp.

The suggestion/motivation for doing so is present in Stallkamp, column 1 lines 59-67), where it states that A/V data may have been generated based on a clock and rate different from that of the isochronous bus used to transmit it and therefore the house reference signal will allow synchronization with both clock rates.

Therefore it would have been obvious to combine Domon with Stallkamp to obtain the invention as recited in the instant claim.

As per claim 2, it is noted that Stallkamp does not appear to explicitly disclose, the transmitted data is a video signal in DV format and the converted data is an analog video signal or SDI video signal.

However Domon discloses, the transmitted data is a video signal in DV format and the converted data is an analog video signal or SDI video signal (the digital video player 220 decodes the DV format data and outputs an analog video signal, Domon page 6, paragraph 0098, lines 6-8).

Stallkamp and Domon are analogous art because they are from the same field of endeavor, namely, they both synchronous video data transmitted over an IEEE 1394 bus.

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of Stallkamp and Domon before him or her, to enhance the communication and conversion methods of Domon with the synchronization with the house reference signal of Stallkamp.

The suggestion/motivation for doing so is present in Stallkamp, column 1 lines 59-67), where it states that A/V data may have been generated based on a clock and rate different from that of the isochronous bus used to transmit it and therefore the house reference signal will allow synchronization with both clock rates.

Therefore it would have been obvious to combine Domon with Stallkamp to obtain the invention as recited in the instant claim.

As per claim 3, the first node serves as cycle master for data transfer (AV devices 108 and 110 may function as the cycle master and maybe a device such as a digital video camera, Stallkamp column 3, lines 17-19 and 37-41).

As per claim 4, Stallkamp discloses, the second node comprises the synchronization adjustment unit (SYNC 254, Stallkamp Fig. 2), and the cycle start packet frequency is synchronized with the frequency of the reference signal received by the external synchronizing signal receiver (Synchronizer 254 synchronizes the operating

frequencies of AV devices and enables data based in one time domain to be transmitted over an isochronous bus of a second time domain, Stallkamp column 5, lines 10-20) by means of the synchronization adjustment unit of the node that serves as the cycle master (Either AV node 108 or AV node 110 may serve as cycle master, column 3, lines 37-41) (Therefore the second node, node, whether 108 or 110, may serve as the cycle master and synchronize itself internally).

Referring to claim 8, similar limitations as in claim 1 are recited. Therefore the rejection of claim 1 applies to claim 8.

As per claim 9, similar limitations as in claim 2 are recited. Therefore the rejection of claim 2 applies to claim 9.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUSHAR S. SHAH whose telephone number is (571)270-1970. The examiner can normally be reached on Mon-Fri 7:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Henry Tsai can be reached on 571-272-4176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. S. S./
Examiner, Art Unit 2184

/Manorama Padmanabhan/
For
Henry Tsai
Supervisory Patent Examiner, Art Unit 2184